

Sequence Listing 2.txt

Sequence Listing

<110> SJ BIOMED INC.

<120> Anti-obese immunogenic hybrid polypeptides and anti-obese vaccine composition comprising the same

<160> 9

<170> KopatentIn 1.71

<210> 1

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> mimetic peptide for apolipoprotein B-100 epitope

<400>

1

Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe
1 5 10 15

<210>

2

<211>

15

<212> PRT

<213> Artificial Sequence

<220>

<223> mimetic peptide for apolipoprotein B-100 epitope

<400>

2

Arg Phe Arg Gly Leu Ile Ser Leu Ser Gln Val Tyr Leu Asp Pro

1

5

10

15

<210>

3

<211>

15

<212> PRT

<213> Artificial Sequence

<220>

<223> mimetic peptide for apolipoprotein B-100 epitope

<400>

3

Ser Val Cys Gly Cys Pro Val Gly His His Asp Val Val Gly Leu

1

5

10

15

<210>

4

<211>

204

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence for terameric mimetic peptide

Sequence Listing 2.txt

```

<220>
<221>      CDS
<222>      (1)..(204)

<400>      4
gac gtc cgt aat gtt cct cct atc ttc aat gat gtt tat tgg att gca        48
Val Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala
    1           5             10            15

ttc ctc gac cgt aat gtt cct cct atc ttc aat gat gtt tat tgg att        96
Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile
    20          25            30

gca ttc ctc gac cgt aat gtt cct cct atc ttc aat gat gtt tat tgg        144
Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp
    35          40            45

att gca ttc ctc gac cgt aat gtt cct cct atc ttc aat gat gtt tat        192
Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr
    50          55            60

tgg att gca ttc
Trp Ile Ala Phe
    65

<210>      5
<211>      68

<212>      PRT
<213>      Artificial Sequence
<400>      5
Val Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala
    1           5             10            15

Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile
    20          25            30

Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp
    35          40            45

Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr
    50          55            60

Trp Ile Ala Phe
    65

<210>      6
<211>      180
<212>      DNA
<213>      Hepatitis B virus

<220>
<221>      CDS
<222>      (1)..(177)
<223>      Hepatitis B virus pres2

<220>
<221>      terminator
<222>      (178)..(180)

```

Sequence Listing 2.txt

```

<400>    6
atg cag tgg aac tcc acc aca ttc cac caa gct ctg cta gat ccc aga        48
Met Gln Trp Asn Ser Thr Thr Phe His Gln Ala Leu Leu Asp Pro Arg
 1           5          10          15

gtg agg ggc cta tat ttt cct gct ggt ggc tcc agt tcc gga aca gta        96
Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser Ser Gly Thr Val
 20          25          30

aac cct gtt ccg act act gcc tca ccc ata tcg tca atc ttc tcg agg        144
Asn Pro Val Pro Thr Thr Ala Ser Pro Ile Ser Ser Ile Phe Ser Arg
 35          40          45

act ggg gac cct gca ccg aac ctc gag cggt tca             taa        180
Thr Gly Asp Pro Ala Pro Asn Leu Glu Arg Ser
 50          55

<210>    7
<211> 59
<212> PRT
<213> Hepatitis B virus

<400>    7
Met Gln Trp Asn Ser Thr Thr Phe His Gln Ala Leu Leu Asp Pro Arg

 1           5          10          15
Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser Ser Gly Thr Val
 20          25          30

Asn Pro Val Pro Thr Thr Ala Ser Pro Ile Ser Ser Ile Phe Ser Arg
 35          40          45

Thr Gly Asp Pro Ala Pro Asn Leu Glu Arg Ser
 50          55

<210>    8
<211> 444
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA sequence for hybride polypeptide

<220>
<221> CDS
<222> (1)..(441)

<220>
<221> terminator
<222> (441)..(444)

<400>    8
atg aga gga tcg cat cac cat cac gga tcc gat gat gat gac        48
Met Arg Gly Ser His His His His His Gly Ser Asp Asp Asp Asp
 1           5          10          15

aag atc gtc gac cgt aat gtt cct cct atc ttc aat gat gtt tat tgg        96

```

Sequence Listing 2.txt

Lys Ile Val Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp			
20	25	30	
att gca ttc ctc gac cgt aat gtt cct cct atc ttc aat gat gtt tat			144
Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr			
35	40	45	
tgg att gca ttc ctc gac cgt aat gtt cct cct atc ttc aat gat gtt			192
Trp Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val			
50	55	60	
tat tgg att gca ttc ctc gac cgt aat gtt cct cct atc ttc aat gat			240
Tyr Trp Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp			
65	70	75	80
gtt tat tgg att gca ttc ctc gac atg cag tgg aac tcc acc aca ttc			288
Val Tyr Trp Ile Ala Phe Leu Asp Met Gln Trp Asn Ser Thr Thr Phe			
85	90	95	
cac caa gct ctg cta gat ccc aga gtg agg ggc cta tat ttt cct gct			336
His Gln Ala Leu Leu Asp Pro Arg Val Arg Gly Leu Tyr Phe Pro Ala			
100	105	110	
ggt ggc tcc agt tcc gga aca gta aac cct gtt ccg act act gcc tca			384
Gly Gly Ser Ser Ser Gly Thr Val Asn Pro Val Pro Thr Thr Ala Ser			
115	120	125	
ccc ata tcg tca atc ttc tcg agg act ggg gac cct gca ccg aac ctc			432
Pro Ile Ser Ser Ile Phe Ser Arg Thr Gly Asp Pro Ala Pro Asn Leu			
130	135	140	
gag cgg tca taa			444
Glu Arg Ser			
145			

<210> 9
<211> 147
<212> PRT
<213> Artificial sequence

<400> 9
Met Arg Gly Ser His His His His His Gly Ser Asp Asp Asp Asp
1 5 10 15

Lys Ile Val Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp

20 25 30

Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr

35 40 45

Trp Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val

50 55 60

Tyr Trp Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp

65 70 75 80

Val Tyr Trp Ile Ala Phe Leu Asp Met Gln Trp Asn Ser Thr Thr Phe

85 90 95

His Gln Ala Leu Leu Asp Pro Arg Val Arg Gly Leu Tyr Phe Pro Ala

Sequence Listing 2.txt
105 110

<210> 10
<211> 432
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA sequence for PTB14

<220>
<221> CDS
<222> (1)..(429)

```

<400>    10
atg aga gga tcg cat cac cat cac cat cac gga tcc gat gat gat gac
Met Arg Gly Ser His His His His His Gly Ser Asp Asp Asp Asp Asp
1          5          10          15

```

aag atc gtc gac atg cag tgg aac tcc acc aca ttc cac caa gct ctg 96
Lys Ile Val Asp Met Gln Trp Asn Ser Thr Thr Phe His Gln Ala Leu
20 25 30

atc ttc tcg aag act ggg gac cct gca ccg aac ctc gac cgt aat gtt
Ile Phe Ser Lys Thr Gly Asp Pro Ala Pro Asn Leu Asp Arg Asn Val
65 70 75 80

```

gtt cct cct atc ttc aat gat gtt tat tgg att gca ttc ctc gac cgt      336
Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp Arg
          100          105          110

```

```

aat gtt cct cct atc ttc aat gat gtt tat tgg att gca ttc ctc gac 384
Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp
115          120          125

```

```
cgt aat gtt cct cct atc ttc aat gat gtt tat tgg att gca ttc      t    430
Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe
   130          135          140
```

Sequence Listing 2.txt

aa

432

<210> 11
<211> 143
<212> PRT
<213> Artificial Sequence

<400> 11
Met Arg Gly Ser His His His His His Gly Ser Asp Asp Asp Asp
1 5 10 15
Lys Ile Val Asp Met Gln Trp Asn Ser Thr Thr Phe His Gln Ala Leu
20 25 30
Leu Asp Pro Arg Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser
35 40 45
Ser Gly Thr Val Asn Pro Val Pro Thr Thr Ala Ser Pro Ile Ser Ser
50 55 60
Ile Phe Ser Lys Thr Gly Asp Pro Ala Pro Asn Leu Asp Arg Asn Val
65 70 75 80
Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp Arg Asn
85 90 95
Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp Arg
100 105 110
Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp
115 120 125
Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe
130 135 140